

## MONOLITHIC LEAD-SALT INFRARED RADIATION DETECTORS AND METHODS OF FORMATION

### ABSTRACT OF THE DISCLOSURE

A two-dimensional array of Lead-Salt detector elements monolithically formed mounted on an integrated circuit includes an integrated circuit having a passivation layer and a plurality of electrical contacts. The system also includes a delineated, sensitized Lead-Salt layer upon the passivation layer, the delineations forming a plurality of detector elements. The system additionally includes vias through the passivation layer to the electrical contacts and electrical couplers between the electrical contacts and the detector elements.